EXHIBIT B

Thomas J. Ashton

605 West Chapel Hill St, Apt 638 Durham, NC 2770I Phone: (626) 272-7455 Email: m.slater.johnson@gmail.com

Analysis of Economic Loss in the Matter of Estate of Thomas J. Ashton

September 2016

To Whom It May Concern,

I have been retained by Kreindler & Kreindler LLP to provide an estimate of the economic losses to the estate of Thomas J. Ashton following his death in the terrorist attacks of September II, 200I. The attached report provides the details of my analysis.

I have attached my Curriculum Vitae that describes my qualifications to undertake this report.

Matthew S. Johnson

605 West Chapel Hill St, Apt 638 Durham, NC 2770I Phone: (626) 272-7455 Email: m.slater.johnson@gmail.com

1. Introduction

Thomas J. Ashton was born on December 6, 1979, and he was 21 years old when he was killed in the terrorist attacks of September 11, 2001. He was survived by a large and close-knit family.

This report provides the details behind an estimate of the economic loss to the estate of Mr. Ashton as a result of his death.

2. Retirement and Life Expectancy

I have assumed Mr. Ashton would work until the age of 65, and that he would live until age 76, the average life expectancy of a white male aged 21 as of 2002.¹

3. Earnings Loss

At the time of his death, Thomas Ashton was beginning a new career as an electrician in the International Brotherhood of Electrical Workers (IBEW) Local 3 Union. After completing a four-year apprenticeship, which he had begun only two months prior to his death, Mr. Ashton's career as an IBEW member would have rewarded him with both a well-paying salary and generous benefits. Given his traits of intelligence, tenacity and persistence described in the report I have received prepared by James P. Kreindler, Esq, I have assumed that Mr. Ashton would have continued with this career until his retirement.

My estimate of Mr. Ashton's lost earnings is based on the May 11, 2001 agreement ("IBEW Agreement") between the New York Electrical Contractors and Local Union No: 3 IBEW. After completing his four-year apprenticeship, Mr. Ashton would have become an "A" Journeyman, and following a few more years of experience would have become an "M" Journeyman. I did not see in the materials I was given, nor through the Internet, how many years it would likely take for Mr. Ashton to go from "A" to "M" Journeyman, so I have assumed it would take four years.

The hourly wages and hours worked per week for the apprenticeship and Journeyman positions, as of 2001, were provided in the IBEW Agreement, and I have assumed Mr. Ashton's wage as a "M" Journeyman would have increased by 3 percent each year after beginning that role.

4. Retirement Benefits

¹ National Vital Statistics Reports. United States Life Tables, 2002. Volume 53, No. 6, November 10, 2004.

As a IBEW member, Mr. Ashton would have received substantial benefits in retirement, both through an annuity and pension plan.

Through the annuity plan, Mr. Ashton would have received a fixed monthly stream upon retirement, with the amount determined by the total contributed at time of retirement. As of 2001, Mr. Ashton's employer would have contributed between 30 cents (as an apprentice) and 1 dollar (as an "A" Journeyman) per hour worked, but as of 2010 the contribution for "A" Journeymen had increased to \$2.50.2 Given that this contribution more than doubled over a 12-year period, I have assumed this contribution would again double in the year 2030 to \$5. Given this estimated contribution path, I estimate the total contributions to Mr. Ashton's annuity account at retirement age would be \$241,920 (Table 3), ensuring would be entitled to annual payments of roughly \$22,000 until his estimated death at age 76.

Mr. Ashton would also have received a pension in retirement. I could not find information about the pension benefit he could expect to receive in the IBER agreement, but I found a description of the plan from 2013.³ The monthly pension benefit was \$80 multiplied by the number of credits the retiree had accumulated. The maximum credits a retiree could earn was 40 as of 2011, so I assume Mr. Ashton would have accumulated 40 credits given his long expected tenure in this profession.

Finally, Mr. Ashton would have received Social Security payments in retirement. I assume he would have received a monthly payment of \$1,341, which is the average monthly benefit among retired workers in 2016.⁴

5. Income Taxes and other deductions from pre-tax earnings

A portion of Mr. Ashton's earnings would have been taken out for his union dues. I have estimated the portion that would be taken out of his annual earnings based on the IBEW agreement.

Additionally, a portion of Mr. Ashton's earnings would have been taxed at the federal and state level, and for FICA. To estimate Mr. Ashton's tax liability, I use the TaxSim program, administered by the National Bureau of Economic Research (NBER).⁵

6. Personal Consumption

² See the report dated May 9, 2013, http://www.jibei.org/SPD's/Annuity_SPD_2013.pdf (accessed 9/4/2016)

³ See http://jibei.org/SPD's/Pension Trust SPD 2013.pdf

⁴ Source: Investopedia. http://www.investopedia.com/ask/answers/102814/what-maximum-i-can-receive-my-social-security-retirement-benefit.asp

⁵ TaxSim takes as inputs taxable income, marital status, age, dependents, among others, and outputs federal, state, and FICA tax liabilities. For simplicity I assume the filer filed as "Single." I assume Mr. Ashton would have lived in a 2-person household (with his then girlfriend Jackie) through age 25, a 3-person household through age 30, a 4-person household through age 50, and finally a 2-person household thereafter.

Mr. Ashton would have used a portion of his earnings and benefits for personal consumption. To estimate the portion of Mr. Ashton's income that would have gone to personal consumption, I use the Patton-Nelson tables, a widely referenced source to estimate the necessary consumption allowance to determine the portion of post-tax income that is to be included as a loss to the estimate.⁶

The Patton-Nelson method estimates the percent of income allocated to consumption by income, gender, and household size. I make the same assumptions regarding Mr. Ashton's household size as in estimating his tax liability.

7. Lost Value of Household Services

Mr. Ashton was an incredibly devoted son and partner, and one way he embodied this characteristic was through providing help around the house, including working on household projects together with his father. To estimate the value of these lost services, I have use the "Replacement Rate" method to estimate what his family would have to pay to hire someone to provide these services. I assume Mr. Ashton would have spent 8 hours per week providing such services, which is line with descriptions in the reports I have received, and that his family would have to pay someone \$15/hour to provide them in his place.

8. Discount Rates

An estimate of the present value of the loss to Mr. Ashton's estate must discount future income streams at an appropriate rate. As such, I have discounted all income beyond 2016 at an annual rate of 2 percent.

⁶ Ruble, M.R., Patton, R.T. and Nelson, D.M., 2014. Patton-Nelson Personal Consumption Tables 2011-12. *J. Legal Econ.*, 21, p.41.

Case 1:03-md-01570-GBD-SN Document 3357-2 Filed 10/11/16 Page 7 of 40

Table 1: Summary of Economic Damages to t Thomas Ashton	he Estate of
Present Value of Lost Earnings	1,352,123
Present Value of Lost Retirement Benefits	271,576
Present Value of Lost Household Services	252,350
Total	1,876,048

Year Age 2002 21 2003 22 2004 23 2005 24 2006 25 2007 26		Hours (35 hours/week*52	Pre-tax earnings	Taken out for	Taxable Income	Taxes	Take Home Pav	Consumption	Net Loss	Present Value	Discount
	11.25 14.30 17.15 19.60	(capan		IBE w benefits			ę,				
	14.30 17.15 19.60	1,820	20,475	6,276	14,199	3,068	11,131	4,853	6,278	6,278	0
	17.15	1,820	26,026	7,977	18,049	4,338	13,711	5,978	7,733	7,733	0
For the st	19.60	1,820	31,213	6,567	21,646	5,593	16,053	6,999	9,054	9,054	0
180		1,820	35,672	10,933	24,739	6,671	18,068	7,878	10,190	10,190	0
	20.60	1,820	37,492	11,491	26,001	5,177	20,823	5,352	15,472	15,472	0
	20.60	1,820	37,492	11,491	26,001	4,885	21,115	5,427	15,689	15,689	0
2008 27	20.60	1,820	37,492	11,491	26,001	4,674	21,326	5,481	15,845	15,845	0
	20.60	1,820	37,492	11,491	26,001	3,871	22,130	5,687	16,443	16,443	0
	20.60	1,820	37,492	11,491	26,001	3,852	22,149	5,692	16,457	16,457	0
	41.00	1,820	74,620	22,871	51,749	15,110	36,639	8,170	28,468	28,468	0
	42.23	1,820	76,859	23,557	53,301	14,415	38,886	7,427	31,459	31,459	0
	43.50	1,820	79,164	24,264	54,900	15,993	38,908	7,431	31,476	31,476	0
	44.80	1,820	81,539	24,992	56,547	16,619	39,929	7,626	32,302	32,302	0
	46.15	1,820	83,985	25,742	58,244	17,412	40,832	6,982	33,850	33,850	0
	47.53	1,820	86,505	26,514	59,991	18,229	41,763	7,141	34,621	33,942	-
	48.96	1,820	89,100	27,309	61,791	19,070	42,721	7,305	35,416	34,040	2
	50.42	1,820	91,773	28,128	63,645	19,937	43,708	7,474	36,234	34,144	3
	51.94	1,820	94,526	28,972	65,554	20,829	44,725	7,648	37,077	34,253	4
	53.50	1,820	97,362	29,842	67,521	21,749	45,772	7,827	37,945	34,368	ς,
2021 40	55.10	1,820	100,283	30,737	69,546	22,696	46,851	8,011	38,839	34,488	9
	56.75	1,820	103,292	31,659	71,633	23,671	47,962	8,201	39,760	34,614	7
	58.46	1,820	106,390	32,609	73,782	24,676	49,106	8,397	40,709	34,745	8
2024 43	60.21	1,820	109,582	33,587	75,995	25,910	50,085	7,863	42,221	35,329	6
	62.02	1,820	112,869	34,594	78,275	26,976	51,299	8,054	43,245	35,476	10
	63.88	1,820	116,256	35,632	80,623	28,074	52,549	8,250	44,299	35,628	ī
	65.79	1,820	119,743	36,701	83,042	29,205	53,837	8,452	45,385	35,785	12
	67.77	1,820	123,335	37,802	85,533	30,370	55,164	8,661	46,503	35,948	13
	08.69	1,820	127,036	38,936	88,099	31,570	56,529	8,875	47,654	36,116	14
2030 49	71.89	1,820	130,847	40,104	90,742	32,811	57,931	6,095	48,836	36,286	15
	74.05	1,820	134,772	41,308	93,464	34,089	59,375	9,322	50,053	36,461	16
2032 51	76.27	1,820	138,815	42,547	96,268	37,513	58,755	14,160	44,595	31,848	17
	78.56	1,820	142,980	43,823	99,156	38,869	60,287	13,384	46,903	32,840	18

19 20 20 21 22 23 24 25 26 27 28 29 30 31
32,996 32,939 33,134 33,334 33,538 33,830 34,910 35,341 35,773 36,209 37,248 37,696 38,147
48,070 48,946 50,220 51,533 52,886 54,413 57,274 59,140 61,061 63,041 66,146 68,281
13,717 13,967 14,330 14,705 15,091 15,527 14,950 15,437 15,939 16,456 15,921 16,456
61,786 62,913 64,551 66,238 67,976 69,940 72,224 74,577 77,000 79,496 82,067 84,716 87,443
40,345 42,282 43,800 45,363 46,973 48,458 49,726 51,031 52,376 53,761 55,188 56,657
102,131 108,195 108,351 111,601 114,949 118,398 121,950 125,608 129,377 133,258 141,373 141,373
45,138 46,492 47,887 49,323 50,803 52,327 53,897 55,514 57,179 58,895 60,662 62,481
147,269 151,687 156,238 160,925 165,753 170,725 175,847 181,122 186,556 192,153 197,917 203,855
1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820 1,820
80.92 83.34 85.84 88.42 91.07 93.81 96.62 99.52 102.50 105.58 108.75 112.01
53 54 55 55 57 58 59 60 61 63 63
2034 2035 2036 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 Total

Table 3: Annual Employer Contribution to Annuity Plan

year	Age	Contributions
2002	21	546
2003	22	546
2004	23	546
2005	24	546
2006	25	546
2007	26	647.5
2008	27	647.5
2009	28	647.5
2010	29	647.5
2011	30	4550
2012	31	4550
2013	32	4550
2014	33	4550
2015	34	4550
2016	35	4550
2017	36	4550
2018	37	4550
2019	38	4550
2020	39	4550
2021	40	4550
2022	41	4550
2023	42	4550
2024	43	4550
2025	44	4550
2026	45	4550
2027	46	4550
2028	47	4550
2029	48	4550
2030	49	4550
2031	20	9100
2032	51	9100
2033	52	9100
2034	53	9100
2035	54	9100
2036	55	9100
2037	56	9100
2038	57	9100
2039	58	9100
2040	59	9100
2041	60	9100
2042	61	9100
2043	62	9100
2044	63	9100
2045	64	9100
2046	65	9100
Total at retir	ement	241920

Table 4: Present Value of Lost Retirement Benefits

Year	Age	Annuity Benefit	Pension Benefit	Social Security	Taxes	Post tax retirement earnings	Consumption	Net Loss	Present Value	Discount
2047	66	26400	38400	16092	16285,9	64606.1	14342.6	50263.5	27205	31
2048	67	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	26672	32
2049	68	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	26149	33
2050	69	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	25636	34
2051	70	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	25133	35
2052	71	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	24640	36
2053	72	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	24157	37
2054	73	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	23684	38
2055	74	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	23219	39
2056	7.5	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	22764	40
2057	76	26400	38400	16092	16285.9	64606.1	14342.6	50263.5	22318	41

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Citizenship: USA

EMPLOYMENT

Postdoctoral Scholar, Sanford School of Public Policy, Duke University, starting July 2016

EDUCATION

Ph.D., Economics, Boston University, Boston, MA, May 2016 (expected)

Dissertation Title: Essays on Nonwage Compensation

Dissertation Committee: Johannes Schmieder, Kevin Lang, David I. Levine

Visiting Ph.D. student, Harris School of Public Policy, University of Chicago, Chicago, IL, 2014-2015

B.A., Economics and History (with Honors), University of California, Berkeley, Berkeley, CA, 2007

RESEARCH FIELDS

Labor Economics, Public Economics, Organizational Economics

RESEARCH GRANTS

2014-2015: The Effects of OSHA Enforcement: An Analysis of a Very Large Sample of Randomized Inspections." Coalition for Evidence-Based Policy Low-Cost RCT Grant, \$100,000 (Co-PI with David I. Levine and Michael W. Toffel)

FELLOWSHIPS AND AWARDS

2015-2016: Pre-Doctoral Fellowship in Disability Policy, National Bureau of Economic Research

2014: Outstanding Paper Award, Alliance for Research on Corporate Sustainability (ARCS) Annual Conference

2014-2015: Funding for Research Assistant, RA Mentor Program, Boston University Department of Economics

2012: National Science Foundation Graduate Research Fellowship, Honorable Mention

2011-2016: Dean's Fellowship, Boston University

2007: Distinction in General Scholarship, UC Berkeley

TEACHING EXPERIENCE

2012-2013: Teaching Fellow, Principles of Microeconomics, Department of Economics, Boston University

RESEARCH EXPERIENCE

2013-2014: Research Assistant for Professors Carola Frydman, Claudia Olivetti and Daniele Paserman, Boston University

2009-2011: Research Assistant for Professors Laura Alfaro, Fritz Foley, and Michael Toffel, Harvard Business School

2007-2009: Senior Research Assistant for Dr. Martin Baily, The Brookings Institution

PUBLICATIONS

Levine, David I., Michael W. Toffel, and Matthew S. Johnson. 2012. "Randomized Government Safety Inspections Reduce Worker Injuries with No Detectable Job Loss." *Science* 336, no. 6083.

Baily, Martin N., Robert E. Litan and Matthew S. Johnson. 2008. "The Origins of the Financial Crisis." The Brookings Institution; Fixing Finance Series: Paper 3.

Johnson, Matthew S. 2007. "The Power of Ideas and American Racial Struggles in the Early Nineteenth Century." *Clio's Scroll: Berkeley Undergraduate History Journal* (spring).

WORKING PAPERS

"Regulation by Shaming: Deterrence Effects of Publicizing Violations of Workplace Safety Laws."

OTHER PUBLICATIONS

Harvard Business School (HBS) Teaching Materials

Foley, C. Fritz, Matthew S. Johnson. "The Export-Import Bank of the United States." HBS Case 211-032.

Foley, C. Fritz and Matthew S. Johnson. "Belco Global Foods." HBS Case 211-033.

Alfaro, Laura, and Matthew Johnson. "Foreign Direct Investment and Ireland's Tiger Economy (B)." HBS Supplement 710-057.

Foley, C. Fritz, Michael Chen, Matthew Johnson, Linnea Meyer. "Noble Group." HBS Case 210-021.

Book Chapters

Alfaro, Laura and Matthew Johnson. 2012. "Foreign Direct Investment and Growth." Chap. 20 in *The Evidence and Impact of Financial Globalization*, edited by Gerard Caprio, 299–307. Elsevier.

CONFERENCES AND PRESENTATIONS

2016: Strategy and the Business Environment Annual Conference

2015: Southern Economic Association Annual Meeting

2014: Society of Labor Economists (SOLE) Annual Meeting; Alliance for Research in Corporate Sustainability (ARCS) Annual Meeting; Washington University Economics Graduate Student Conference; White House Office of Science and Technology Policy

2013: Harvard School of Public Health ERC Seminar

2012: Association for Public Policy and Management Fall Research Conference, Baltimore MD

COMPUTER SKILLS: STATA, LaTeX, R

OTHER EXPERIENCE

2014-2015: BU Labor Reading Group founder/organizer; 2013-2014: BU Graduate Economics Association Officer; 2012-2015: Volunteer Tutor with Tutoring Plus! (2012-2015)

Michael S. Baksh

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Analysis of Economic Loss in the Matter of Estate of Michael S. Baksh

September 2016

To Whom It May Concern,

I have been retained by Kreindler & Kreindler LLP to provide an estimate of the economic losses to the estate of Michael S. Baksh following his death in the terrorist attacks of September II, 2001. The attached report provides the details of my analysis.

I have attached my Curriculum Vitae that describes my qualifications to undertake this report.

Matthew S. Johnson

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1. Introduction

Michael S. Baksh was born on May 18, 1965, and he was 36 years old when he was killed in the terrorist attacks of September 11, 2001. He was survived by his wife and two children.

This report provides the details behind an estimate of the economic loss to the estate of Mr. Baksh as a result of his death.

2. Retirement and Life Expectancy

I have assumed Mr. Baksh would work until the age of 65, and that he would live until age 77, the average life expectancy of a male aged 36 as of 2002.¹

3. Earnings Loss

At the time of his death, Michael Baksh was beginning a new career with Marsh Private Client Services, having begun a new position at the company a mere day prior to his death. This position offered both financial security and steady hours, both of which were important for Mr. Baksh, who based on the documents I have received was a devoted husband and father. Furthermore, based on his background, Mr. Baksh appeared eminently qualified for the position. Therefore, I have assumed that Mr. Baksh would have continued at Marsh until his retirement.

My estimate of Mr. Baksh's lost earnings is based on the report I have received written by Noah H. Kushlefsky of Kreindler & Kreindler LLP. Mr. Baksh's starting salary was \$100,000. I assume Mr. Baksh's salary would have increased each year by 3.32% from then on, which was the Compound Annual Growth Rate (CAGR) in total compensation for workers in "Financial Services" between 2004 and 2016.² In addition to salary, Marsh would have paid an annual bonus between 10-65 percent of salary, so I have assumed he would receive a bonus of 37.5 percent of his salary each year.

4. Retirement Benefits

¹ National Vital Statistics Reports. United States Life Tables, 2002. Volume 53, No. 6, November 10, 2004.

² Bureau of Labor Statistics, Employer Cost for Employee Compensation Historical Listing, National Compensation Survey, March 2004-June 2016. http://www.bls.gov/ncs/ect/#tables (accessed 9/25/2016).

Mr. Baksh could have expected to receive generous retirement benefits through his position at Marsh as well. He would have received a traditional pension, which would have paid him annually an amount roughly between 40 and 45% of average salary for the five years prior to retirement. Thus, I have assumed he would receive a pension equal to 42.5% of his estimated average salary over this period.

Additionally, Marsh offered other retirement benefits which the report I have received suggests he would have taken full advantage of. I assume he would have paid 15% of his pre-tax salary into Marsh's Stock Investment Plan (a 401(k) type plan) and, based on Marsh's policy, would have received matching contributions of 4.29% of his salary up to age 55, and 6% of his salary from then on. I assume this 401(k) would have achieved an annual rate of return of 4 percent, which is in line with predictions of many financial experts as of 2014.³ I assume Mr. Baksh would have drawn down these savings each year in retirement so that he exhausted it in the year of his death.⁴

Finally, Mr. Baksh would have received Social Security payments in retirement. I assume he would have received a monthly payment of \$1,341, which is the average monthly benefit among retired workers in 2016.⁵

5. Income Taxes

A portion of Mr. Baksh's earnings would have been taxed at the federal and state level, and for FICA. To estimate this tax liability each year, I use the TaxSim program, administered by the National Bureau of Economic Research (NBER).⁶

6. Personal Consumption

Mr. Baksh would have used a portion of his earnings and benefits for personal consumption, and the monetary loss to his estate must be adjusted to account for this consumption. To estimate the portion of Mr. Baksh income that would have gone to personal consumption, I use the Patton-Nelson tables, a widely referenced source to estimate the necessary consumption allowance to determine the portion of post-tax income that is to be included as a loss to the estate of the deceased. The Patton-Nelson method estimates the percent of income allocated to consumption by income, gender, and household size.

³ Ruth Davis Konigsberg, 2014. "Why Your 401(k) May Only Return 4%." Time.com http://time.com/money/3247321/retirement-401k-no-more-10-returns/ (accessed 9/5/2016)

⁴ Specifically, each year I assume he would withdraw a percentage of his remaining balance equal to the one divided by the number of years remaining in his life plus 1. Thus, at age 66, he withdraws 1/(77-66+1)=8.3%.

⁵ Source: Investopedia. http://www.investopedia.com/ask/answers/102814/what-maximum-i-can-receive-my-social-security-retirement-benefit.asp

⁶ TaxSim takes as inputs taxable income, marital status, age, dependents, among others, and outputs federal, state, and FICA tax liabilities. For simplicity I assume the filer filed as "Single." I assume tax rates in years after 2013 are remain at what they were in 2013 (the last year in the TaxSim database).

⁷ Ruble, M.R., Patton, R.T. and Nelson, D.M., 2014. Patton-Nelson Personal Consumption Tables 2011-12. *J. Legal Econ.*, 21, p.41.

Additionally, a portion of Mr. Baksh's earnings would have gone toward health insurance premiums. I have estimated the amount Mr. Baksh would have paid to such premiums based on a 2012 report of health insurance premiums by state from 2003 to 2011.8

7. Lost Value of Household Services

Mr. Baksh was a devoted husband and father, equally sharing in household duties and child rearing with his wife Christina, who estimated that Mr. Baksh provided an average of 20-25 hours of service per week.

To estimate the value of these lost services, I have use the "Replacement Rate" method to estimate what his family would have to pay to hire someone to provide these services. I assume Mr. Baksh would have provided 20 hours per week of these services through retirement, and 10 hours per week thereafter, and that his family would have to pay someone \$15/hour to provide them in his place.

8. Loss of Nurture to Mr. Baksh's children

Another loss of Mr. Baksh's death is the nurture, and emotional and psychological development, he would have provided to his children, Ava and James, age 7 and 2 at the time of his death, respectively. Mr. Baksh always made sure to spend time with his children in the evenings, and was evidently wholly devoted to his family, suggesting he would have provided such nurture had he not been killed. I apply the "Replacement Nurture Model" to estimate how much would need to be paid to hire someone to provide the nurturing services Mr. Baksh would have provided to his children, such as "Psychological / Emotional Development," "Scholastic Education," etc. This model estimates the number of hours Mr. Baksh would provide these services per day based on the American Time Use Survey (ATUS).

9. Discount Rates

An estimate of the present value of the loss to Mr. Baksh's estate must discount future income streams at an appropriate rate. As such, I have discounted all income beyond 2016 at an annual rate of 2 percent.

⁸ The Commonwealth Fund. 2012. State Trends in Premiums and Deductibles, 2003-2011: Eroding Protection and Rising Costs Underscore Need for Action.

http://www.commonwealthfund.org/~/media/files/publications/issue-

brief/2012/dec/premiums/1648_schoen_state_trends_premiums_deductibles_2003_2011_1210.pdf (accessed September 2016).

⁹ Laurila, A., 2013. Valuing Mom & Dad: Calculating Loss of Parental Nurture in a Wrongful Death Action. *U. La Verne L. Rev.*, 35, p.39.

Table 1: Summary of Economic Damages to the Estate Of Michael Baksh

Present Value of Lost Nurture to Children	480,736
Present Value of Lost Retirement Benefits	1,242,356

2						1 1	E	1	.,	Affect I seems	-	
	Annual Salary	Annual Bonus	lotal pre-tax earnings	I aken out for Stock Investmen t Plan (401(k))	Taken out for health insuranc e	l axable Income	Taxes	l ake Home Pay	Consumptio	Net Loss	Present Value	Discount
£	100,000	37,500	137,500	15,000	647	121,855	45,999	75,855	10,316	65,538	65,538	0
	103,320	38,745	142,065	15,498	629	125,888	45,931	79,957	10,874	69,083	69,083	0
	106,750	40,031	146,782	16,013	713	130,056	47,360	82,696	10,668	72,028	72,028	0
	110,294	41,360	151,655	16,544	748	134,362	48,944	85,418	11,019	74,399	74,399	0
	113,956	42,734	156,690	17,093	286	138,810	50,735	88,076	11,362	76,714	76,714	0
	117,739	44,152	161,892	17,661	825	143,406	52,520	988'06	11,088	79,798	79,798	0
	121,648	45,618	167,267	18,247	998	148,153	54,546	93,607	11,420	82,187	82,187	0
	125,687	47,133	172,820	18,853	910	153,057	56,497	96,560	11,780	84,779	84,779	0
	129,860	48,697	178,557	19,479	955	158,123	58,284	99,839	12,180	87,659	87,659	0
	134,171	50,314	184,486	20,126	1,003	163,357	57,871	105,485	12,342	93,144	93,144	0
	138,626	51,985	190,610	20,794	1,053	168,763	59,892	108,871	12,738	96,133	96,133	0
	143,228	53,711	196,939	21,484	1,106	174,349	64,272	110,077	12,329	97,748	97,748	0
	147,983	55,494	203,477	22,197	1,161	180,118	67,480	112,639	14,643	966,76	966,76	0
	152,896	57,336	210,233	22,934	1,219	186,079	69,595	116,484	15,143	101,341	101,341	0
	157,973	59,240	217,212	23,696	1,280	192,236	71,780	120,456	15,057	105,399	103,332	_
	163,217	61,206	224,424	24,483	1,344	198,597	74,037	124,560	15,570	108,990	104,757	7
	168,636	63,239	231,875	25,295	1,411	205,168	76,582	128,585	16,073	112,512	106,023	6
	174,235	65,338	239,573	26,135	1,482	211,956	79,554	132,402	15,888	116,514	107,641	4
	180,019	67,507	247,527	27,003	1,556	218,968	83,601	135,367	20,711	114,656	103,847	9
	185,996	69,748	255,744	27,899	1,634	226,211	86,575	139,636	21,364	118,272	105,022	9
	192,171	72,064	264,235	28,826	1,716	233,694	89,649	144,046	21,175	122,871	106,966	7
	198,551	74,457	273,008	29,783	1,801	241,424	92,960	148,464	21,824	126,640	108,086	8
	205,143	76,929	282,072	30,771	1,891	249,409	26,567	152,842	21,704	131,138	109,731	6
	211,954	79,483	291,436	31,793	1,986	257,657	100,293	157,365	22,346	135,019	110,763	10
	218,991	82,121	301,112	32,849	2,085	266,178	104,141	162,037	22,361	139,676	112,336	=
	226,261	84,848	311,109	33,939	2,189	274,980	108,117	166,863	23,027	143,836	113,414	12
	233,773	87,665	321,438	35,066	2,299	284,073	112,225	171,848	23,028	148,821	115,043	13
	241,534	90,575	332,110	36,230	2,414	293,466	116,467	176,998	23,718	153,280	116,167	14
	210 553	02 507	343 136	37 133	2525	202 160	120.850	182 218	23.701	150 617	117 055	7

otal

Table 3: Value of Contributions to Marsh Stock Investment Plan (including matching contributions from employer)

year	Age	Value of SIP holdings
2002	37	20062
2003	38	41592
2004	39	64671
2005	40	89385
2006	41	115822
2007	42	144075
2008	43	174243
2009	44	206427
2010	45	240736
2011	46	277283
2012	47	316184
2013	48	357566
2014	49	401556
2015	50	448292
2016	51	497915
2017	52	550576
2018	5 3	606430
2019	54	665641
2020	55	728382
2021	56	798139
2022	57	872034
2023	58	950279
2024	59	1033094
2025	60	1120708
2026	61	1213364
2027	62	1311314
2028	63	1414823
2029	64	1524167
2030	65	1639636

Table 4: Present Value of Lost Retirement Benefits

Discount	15	16	17	18	19	20	21	22	23	24	25	26	
Present Value	102513	102415	102357	102339	102834	102894	103470	103610	103790	104488	104738	106909	1242356
Net Loss	137969	140594	143325	146165	149810	152896	156826	160179	163666	168062	171833	178904	
Consumption Net Loss	22088	22508	22945	23400	23181	23658	23434	23935	24456	24229	24772	25792	
Post-tax retirement income	160056	163102	166270	169565	172991	176554	180259	184114	188122	192290	196605	204696	
Taxes	92131	94551	29026	99684	102406	105237	108181	111242	114426	117737	121201	121201	
Pre-tax retirement income	252188	257653	263337	269249	275397	281790	288440	295356	302548	310028	317807	325897	
Social Security	16092	16092	16092	16092	16092	16092	16092	16092	16092	16092	16092	16092	
Pension Benefit	99460	99460	99460	99460	99460	99460	99460	99460	99460	99460	99460	99460	
Annuity from SIP	136636	142102	147786	153697	159845	166239	172889	179804	966981	194476	202255	210345	
Value of SIP contributions	1639636	1563119	1477858	1383275	1278761	1163673	1037331	899020	747985	583428	404510	210345	
Age	99	29	89	69	70	7.1	72	73	74	75	92	77	
Year	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	Total

Table 5: Value of lost nurture provided to children

Year	Son's Age	Daughter's age	Hours/day, son	Hours/day, daughter	Hourly wage for provider of nurture	Value	Present Value	Discount
2002	3	8	1.32	0.52	74	49,975.93	49976	0
2003	4	9	1.32	0.52	74	49,975.93	49976	0
2004	5	10	1.32	0.52	74	49,975.93	49976	0
2005	6	11	1.32	0.52	74	49,975.93	49976	0
2006	7	12	0.52	0.52	74	28,247.27	28247	0
2007	8	13	0.52	0.52	74	28,247.27	28247	O
2008	9	14	0.52	0.52	74	28,247.27	28247	0
2009	10	15	0.52	0.52	74	28,247.27	28247	0
2010	11	16	0.52	0.52	74	28,247.27	28247	O
2011	12	17	0.52	0.52	74	28,247.27	28247	0
2012	13	18	0.52	0.52	74	28,247.27	28247	O
2013	14		0.52		74	14,123.63	14124	0
2014	15		0.52		74	14,123.63	14124	0
2015	16		0.52		74	14,123.63	14124	0
2016	17		0.52		74	14,123.63	13847	1
2017	18		0.52		74	14,123.63	13575	2
2018	18		0.52		74	14,123.63	13309	3

Total 480736

Table 6: Estimated Value of Lost Household Services

Year	Age	Hours	Value	Present Value	Discount
2002	37	1040	15,600.00	15600	0
2003	38	1040	15,600.00	15600	0
2004	39	1040	15,600.00	15600	0
2005	40	1040	15,600.00	15600	0
2006	41	1040	15,600.00	15600	0
2007	42	1040	15,600.00	15600	0
2008	43	1040	15,600.00	15600	0
2009	44	1040	15,600.00	15600	0
2010	45	1040	15,600.00	15600	0
2011	46	1040	15,600.00	15600	0
2012	47	1040	15,600.00	15600	0
2013	48	1040	15,600.00	15600	0
2014	49	1040	15,600.00	15600	0
2015	50	1040	15,600.00	15600	0
2016	51	1040	15,600.00	15294	1
2017	52	1040	15,600.00	14994	2
2018	53	1040	15,600.00	14700	3
2019	54	1040	15,600.00	14412	4
2020	55	1040	15,600.00	14129	5
2021	56	520	7,800.00	6926	6
2022	57	520	7,800.00	6790	7
2023	58	520	7,800.00	6657	8
2024	59	520	7,800.00	6527	9
2025	60	520	7,800.00	6399	10
2026	61	520	7,800.00	6273	11
2027	62	520	7,800.00	6150	12
2028	63	520	7,800.00	6030	13
2029	64	520	7,800.00	5911	14
2030	65	520	7,800.00	5796	15
2031	66	520	7,800.00	5682	16
2032	67	520	7,800.00	5570	17
2033	68	520	7,800.00	5461	18
2034	69	520	7,800.00	5354	19
2035	70	520	7,800.00	5249	20
2036	71	520	7,800.00	5146	21
2037	72	520	7,800.00	5045	22
Total		. ,		392898	

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EMPLOYMENT

Postdoctoral Scholar, Sanford School of Public Policy, Duke University, starting July 2016

EDUCATION

Ph.D., Economics, Boston University, Boston, MA, May 2016 (expected)

Dissertation Title: Essays on Nonwage Compensation

Dissertation Committee: Johannes Schmieder, Kevin Lang, David I. Levine

Visiting Ph.D. student, Harris School of Public Policy, University of Chicago, Chicago, IL, 2014-2015

B.A., Economics and History (with Honors), University of California, Berkeley, Berkeley, CA, 2007

RESEARCH FIELDS

Labor Economics, Public Economics, Organizational Economics

RESEARCH GRANTS

2014-2015: The Effects of OSHA Enforcement: An Analysis of a Very Large Sample of Randomized Inspections." Coalition for Evidence-Based Policy Low-Cost RCT Grant, \$100,000 (Co-PI with David I. Levine and Michael W. Toffel)

FELLOWSHIPS AND AWARDS

2015-2016: Pre-Doctoral Fellowship in Disability Policy, National Bureau of Economic Research

2014: Outstanding Paper Award, Alliance for Research on Corporate Sustainability (ARCS) Annual Conference

2014-2015: Funding for Research Assistant, RA Mentor Program, Boston University Department of Economics

2012: National Science Foundation Graduate Research Fellowship, Honorable Mention

2011-2016: Dean's Fellowship, Boston University

2007: Distinction in General Scholarship, UC Berkeley

TEACHING EXPERIENCE

2012-2013: Teaching Fellow, Principles of Microeconomics, Department of Economics, Boston University

RESEARCH EXPERIENCE

2013-2014: Research Assistant for Professors Carola Frydman, Claudia Olivetti and Daniele Paserman, Boston University

2009-2011: Research Assistant for Professors Laura Alfaro, Fritz Foley, and Michael Toffel, Harvard Business School

2007-2009: Senior Research Assistant for Dr. Martin Baily, The Brookings Institution

PUBLICATIONS

Levine, David I., Michael W. Toffel, and Matthew S. Johnson. 2012. "Randomized Government Safety Inspections Reduce Worker Injuries with No Detectable Job Loss." *Science* 336, no. 6083.

Baily, Martin N., Robert E. Litan and Matthew S. Johnson. 2008. "The Origins of the Financial Crisis." The Brookings Institution; Fixing Finance Series: Paper 3.

Johnson, Matthew S. 2007. "The Power of Ideas and American Racial Struggles in the Early Nineteenth Century." *Clio's Scroll: Berkeley Undergraduate History Journal* (spring).

WORKING PAPERS

"Regulation by Shaming: Deterrence Effects of Publicizing Violations of Workplace Safety Laws."

OTHER PUBLICATIONS

Harvard Business School (HBS) Teaching Materials

Foley, C. Fritz, Matthew S. Johnson. "The Export-Import Bank of the United States." HBS Case 211-032.

Foley, C. Fritz and Matthew S. Johnson. "Belco Global Foods." HBS Case 211-033.

Alfaro, Laura, and Matthew Johnson. "Foreign Direct Investment and Ireland's Tiger Economy (B)." HBS Supplement 710-057.

Foley, C. Fritz, Michael Chen, Matthew Johnson, Linnea Meyer. "Noble Group." HBS Case 210-021.

Book Chapters

Alfaro, Laura and Matthew Johnson. 2012. "Foreign Direct Investment and Growth." Chap. 20 in *The Evidence and Impact of Financial Globalization*, edited by Gerard Caprio, 299–307. Elsevier.

CONFERENCES AND PRESENTATIONS

2016: Strategy and the Business Environment Annual Conference

2015: Southern Economic Association Annual Meeting

2014: Society of Labor Economists (SOLE) Annual Meeting; Alliance for Research in Corporate Sustainability (ARCS) Annual Meeting; Washington University Economics Graduate Student Conference; White House Office of Science and Technology Policy

2013: Harvard School of Public Health ERC Seminar

2012: Association for Public Policy and Management Fall Research Conference, Baltimore MD

COMPUTER SKILLS: STATA, LaTeX, R

OTHER EXPERIENCE

2014-2015: BU Labor Reading Group founder/organizer; 2013-2014: BU Graduate Economics Association Officer; 2012-2015: Volunteer Tutor with Tutoring Plus! (2012-2015)

Christine Barbuto

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Analysis of Economic Loss in the Matter of Estate of Christine Barbuto

September 2016

To Whom It May Concern,

I have been retained by Kreindler & Kreindler LLP to provide an estimate of the economic losses to the estate of Christine Barbuto following her death in the terrorist attacks of September II, 200I. The attached report provides the details of my analysis.

I have attached my Curriculum Vitae that describes my qualifications to undertake this report.

Matthew S. Johnson

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1. Introduction

Christine Barbuto was born on October 28, 1968, and she was 32 years old when she was killed in the terrorist attacks of September 11, 2001. She was survived by her sisters Diane Walsh and Jeanine Daly.

This report provides the details behind an estimate of the economic loss to the estate of Ms. Barbuto as a result of her death.

2. Retirement and Life Expectancy

I have assumed Ms. Barbuto would work until age 65, the normal social security retirement age, and that she would live until age 81, the average life expectancy for a Caucasian woman aged 32 as of 2002. ¹

3. Earnings Loss

Ms. Barbuto was engaging in a very successful career. At the time of her death, she was a Women's Sportswear Buyer for TJX Companies, Inc. During her five years with the company she had risen rapidly, already having been promoted five times, and her current position as Buyer provided the greatest opportunity for upward advancement in the company and future financial rewards. The documents I have received, including a report written by Robert J. Spragg of Kreindler & Kreindler LLP, include interviews with an executive at TJX who states clearly that Ms. Barbuto was poised to make such advancements successfully.

Ms. Barbuto's salary at the time of her death was \$59,500, accompanied by a guaranteed 10 percent bonus. Given her demonstrated success with the company, it is very likely her earnings would have increased substantially as her tenure with TJX increased, and her bonus would have increased to be up to 40 percent of her salary. According to the executive mentioned above, Ms. Barbuto's total compensation would have exceeded \$500,000 annually if she had reached the position of Vice President, General Merchandise Manager, and judging by the language used by this executive, it is extremely likely she would have reached this position. Thus, I assume she would reach this position after 30 years with the company (25 years after the time of her death), and I assume her salary and bonus would increase each year to a) make her bonus be 40 percent of her salary, and b) her total compensation be \$500,000, at this time. This path requires her salary grow at an annual rate of 7.4%, and her bonus at a rate of 5.7%.

¹ National Vital Statistics Reports. United States Life Tables, 2002. Volume 53, No. 6, November 10, 2004.

4. Social Security

Ms. Barbuto would have received Social Security payments in retirement. I assume she would have received a monthly payment of \$1,341, which is the average monthly benefit among retired workers in 2016.²

5. Income Taxes

A portion of Ms. Barbuto's earnings would have been taxed at the federal and state level and for FICA. To estimate this tax liability, I use the TaxSim program, administered by the National Bureau of Economic Research (NBER).³

6. Personal Consumption and Health Care Expenditures

Ms. Barbuto would have used a portion of her earnings and benefits for personal consumption. To estimate the portion of her income that would have gone to personal consumption, I use the Patton-Nelson tables, a widely referenced source to estimate the necessary consumption allowance to determine the portion of post-tax income that is to be included as a loss to the estimate.⁴ The Patton-Nelson method estimates the percent of income allocated to consumption by income, gender, and household size.⁵

In addition, a portion of Ms. Barbuto's earnings would have gone to health care premiums. I have estimated the amount Ms. Barbuto would have paid to such premiums based on a 2012 report of health insurance premiums by state from 2003 to 2011.⁶ In 2003, the average single-person health care premium in Massachusetts was \$3,500/year, and the average employee cost share was 20.4 percent, and so I assume Ms. Barbuto paid (3500*.204=) \$714 for health insurance at this time, and that this amount would increase by 5 percent each year thereafter.

² Source: Investopedia. http://www.investopedia.com/ask/answers/102814/what-maximum-i-can-receive-my-social-security-retirement-benefit.asp

³ TaxSim takes as inputs taxable income, marital status, age, dependents, among others, and outputs federal, state, and FICA tax liabilities. For simplicity I assume the filer filed as "Single."

⁴ Ruble, M.R., Patton, R.T. and Nelson, D.M., 2014. Patton-Nelson Personal Consumption Tables 2011-12. *J. Legal Econ.*, 21, p.41.

⁵ With respect to household size, while Ms. Barbuto was single at the time of her death, it is possible she would have lived in a larger household with dependents as she grew older. For the purposes of estimating her consumption percentage, I assume she would have lived in a 3-person household from age 35 to age 53, and a 2-person household thereafter.

⁶ The Commonwealth Fund. 2012. State Trends in Premiums and Deductibles, 2003-2011: Eroding Protection and Rising Costs Underscore Need for Action.

http://www.commonwealthfund.org/~/media/files/publications/issue-

brief/2012/dec/premiums/1648_schoen_state_trends_premiums_deductibles_2003_2011_1210.pdf (accessed September 2016).

7. Lost Value of Household Services

Ms. Barbuto regularly provided babysitting services at least once a week for the children of her two sisters. Judging by the pictures in the report I received, these children were quite young at the time of Ms. Barbuto's death, so I assume she would have continued providing this service to her sisters for the next five years. This is a service her sisters would have to pay for after Ms. Barbuto's death, so I use the "Replacement Rate" method to calculate the value of these lost services. I assume this service was provided 8 hours per week, 50 weeks per year, and that someone would have to be paid \$15/hour to provide these services.

8. Discount Rates

An estimate of the present value of the loss to Ms. Barbuto's estate must discount future income streams at an appropriate rate. As such, I have discounted all income beyond 2016 at an annual rate of 2 percent.

Table 1: Summary	of Economic	Damages to the
estate of Christine		

Present Value of Lost Earnings	4,181,678
Present value of Lost Social Security benefits	86,280
Present Value of Lost Household Services	30,000
Total	4,297,958

Table 2:	Present V	Table 2: Present Value of Lost Earnings	Earnings										
Year	Age	Annual	Annual	Annual	Total	Allocated	Taxable	Taxes	Take	Consumption	Net Loss	Present	Discount
)	Salary	Bonus	Bonus	pre-tax	to Health	Income		Home			Value	
			percentage		earnings	care			Pay				
						premiums							
2002	33	59,500	0.10	5,950	65,450	714	64,736	24,800	39,936	32,348	7,588	7,588	0
2003	34	63,903	0.11	6,755	70,658	771	69,887	26,448	43,439	31,320	12,120	12,120	0
2004	35	68,632	0.11	7,668	76,300	832	75,468	28,883	46,585	33,588	12,997	12,997	0
2005	36	73,711	0.12	8,705	82,415	868	81,517	31,532	49,985	13,296	36,689	36,689	0
2006	37	79,165	0.12	9,882	89,047	696	88,078	33,254	54,824	10,033	44,791	44,791	0
2007	38	85,023	0.13	11,218	96,241	1,046	95,195	36,402	58,793	10,759	48,034	48,034	0
2008	39	91,315	0.14	12,735	104,050	1,129	102,921	39,815	63,106	10,665	52,441	52,441	0
2009	40	98,072	0.15	14,457	112,529	1,219	111,310	43,034	68,276	11,539	56,737	56,737	0
2010	41	105,330	0.16	16,412	121,741	1,316	120,426	46,296	74,130	11,787	62,343	62,343	0
2011	42	113,124	0.16	18,631	131,755	1,420	130,335	47,480	82,855	12,428	70,427	70,427	0
2012	43	121,495	0.17	21,150	142,645	1,533	141,112	51,305	808,68	13,471	76,337	76,337	0
2013	44	130,486	0.18	24,010	154,496	1,655	152,841	57,798	95,044	13,496	81,548	81,548	0
2014	45	140,142	0.19	27,256	167,398	1,786	165,612	62,226	103,386	14,060	89,325	89,325	0
2015	46	150,513	0.21	30,942	181,454	1,928	179,527	67,052	112,474	14,622	97,853	97,853	0
2016	47	161,650	0.22	35,126	196,776	2,081	194,695	72,312	122,383	15,298	107,085	107,085	0
2017	48	173,613	0.23	39,875	213,488	2,246	211,242	78,636	132,606	15,913	116,693	114,405	-
2018	49	186,460	0.24	45,267	231,727	2,424	229,303	86,529	142,774	16,562	126,212	121,311	2
2019	20	200,258	0.26	51,388	251,646	2,617	249,029	95,219	153,811	17,381	136,430	128,561	3
2020	51	215,077	0.27	58,337	273,414	2,825	270,589	104,716	165,873	18,080	147,793	136,538	4
2021	52	230,993	0.29	66,225	297,218	3,049	294,169	115,103	179,066	18,981	160,085	144,994	'n
2022	53	248,086	0.30	75,180	323,266	3,291	319,975	126,470	193,505	19,544	173,961	154,472	9
2023	54	266,445	0.32	85,346	351,790	3,552	348,238	137,153	211,084	21,320	189,765	165,202	7
2024	55	286,161	0.34	988'96	383,047	3,835	379,213	150,211	229,002	23,129	205,873	175,710	8
2025	99	307,337	0.36	109,987	417,324	4,139	413,185	164,406	248,779	31,346	217,433	181,938	6
2026	57	330,080	0.38	124,859	454,939	4,468	450,472	182,031	268,441	33,824	234,618	192,468	10
2027	58	354,506	0.40	141,742	496,248	4,822	491,426	201,590	289,836	36,519	253,317	203,733	1
2028	59	380,740	0.40	152,296	533,036	5,205	527,830	218,976	308,855	38,916	269,939	212,845	12
2029	09	408,915	0.40	163,566	572,480	5,619	566,862	237,617	329,245	41,485	287,760	222,448	13
2030	19	439,174	0.40	175,670	614,844	6,065	608,779	290,753	318,026	40,071	277,955	210,655	14
2031	62	471,673	0.40	188,669	660,342	6,546	653,796	312,253	341,543	43,034	298,509	221,796	15
2032	63	506,577	0.40	202,631	709,208	7,066	702,142	335,343	366,799	46,217	320,582	233,527	16
2033	64	544,064	0.40	217,625	761,689	7,627	754,062	360,140	393,922	49,634	344,288	245,877	17
2034	65	584,324	0.40	233,730	818,054	8,233	809,821	386,771	423,051	53,304	369,746	258,881	18
Total												4,181,678	

Table 3: Present Value of Lost Social Security Benefits

Year	Age	Social Security	Consumption	Net Loss	Present Value	Discount
2035	66	16092	7016	9076	6,230	19
2036	67	16092	7016	9076	6,108	20
2037	68	16092	7016	9076	5,988	21
2038	69	16092	7016	9076	5,871	22
2039	70	16092	7016	9076	5,756	23
2040	71	16092	7016	9076	5,643	24
2041	72	16092	7016	9076	5,532	25
2042	73	16092	7016	9076	5,424	26
2043	74	16092	7016	9076	5,317	27
2044	75	16092	7016	9076	5,213	28
2045	76	16092	7016	9076	5,111	29
2046	77	16092	7016	9076	5,011	30
2047	78	16092	7016	9076	4,912	31
2048	79	16092	7016	9076	4,816	32
2049	80	16092	7016	9076	4,722	33
2050	81	16092	7016	9076	4,629	34

Table 4 - Loss to Estimated Value of Household

Services Year	Age	Hours Babysitting for sisters' children	Value of household service	Present Value	Discount
2002	33	400	6,000.00	6000	0
2003	34	400	6,000.00	6000	0
2004	35	400	6,000.00	6000	O
2005	36	400	6,000.00	6000	0
2006	37	400	6,000.00	6000	0
Total		No.		30000	

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EMPLOYMENT

Postdoctoral Scholar, Sanford School of Public Policy, Duke University, starting July 2016

EDUCATION

Ph.D., Economics, Boston University, Boston, MA, May 2016 (expected)

Dissertation Title: Essays on Nonwage Compensation

Dissertation Committee: Johannes Schmieder, Kevin Lang, David I. Levine

Visiting Ph.D. student, Harris School of Public Policy, University of Chicago, Chicago, IL, 2014-2015

B.A., Economics and History (with Honors), University of California, Berkeley, Berkeley, CA, 2007

RESEARCH FIELDS

Labor Economics, Public Economics, Organizational Economics

RESEARCH GRANTS

2014-2015: The Effects of OSHA Enforcement: An Analysis of a Very Large Sample of Randomized Inspections." Coalition for Evidence-Based Policy Low-Cost RCT Grant, \$100,000 (Co-PI with David I. Levine and Michael W. Toffel)

FELLOWSHIPS AND AWARDS

2015-2016: Pre-Doctoral Fellowship in Disability Policy, National Bureau of Economic Research

2014: Outstanding Paper Award, Alliance for Research on Corporate Sustainability (ARCS) Annual Conference

2014-2015: Funding for Research Assistant, RA Mentor Program, Boston University Department of Economics

2012: National Science Foundation Graduate Research Fellowship, Honorable Mention

2011-2016: Dean's Fellowship, Boston University

2007: Distinction in General Scholarship, UC Berkeley

TEACHING EXPERIENCE

2012-2013: Teaching Fellow, Principles of Microeconomics, Department of Economics, Boston University

RESEARCH EXPERIENCE

2013-2014: Research Assistant for Professors Carola Frydman, Claudia Olivetti and Daniele Paserman, Boston University

2009-2011: Research Assistant for Professors Laura Alfaro, Fritz Foley, and Michael Toffel, Harvard Business School

2007-2009: Senior Research Assistant for Dr. Martin Baily, The Brookings Institution

PUBLICATIONS

Levine, David I., Michael W. Toffel, and Matthew S. Johnson. 2012. "Randomized Government Safety Inspections Reduce Worker Injuries with No Detectable Job Loss." *Science* 336, no. 6083.

Baily, Martin N., Robert E. Litan and Matthew S. Johnson. 2008. "The Origins of the Financial Crisis." The Brookings Institution; Fixing Finance Series: Paper 3.

Johnson, Matthew S. 2007. "The Power of Ideas and American Racial Struggles in the Early Nineteenth Century." *Clio's Scroll: Berkeley Undergraduate History Journal* (spring).

WORKING PAPERS

"Regulation by Shaming: Deterrence Effects of Publicizing Violations of Workplace Safety Laws."

OTHER PUBLICATIONS

Harvard Business School (HBS) Teaching Materials

Foley, C. Fritz, Matthew S. Johnson. "The Export-Import Bank of the United States." HBS Case 211-032,

Foley, C. Fritz and Matthew S. Johnson. "Belco Global Foods." HBS Case 211-033.

Alfaro, Laura, and Matthew Johnson. "Foreign Direct Investment and Ireland's Tiger Economy (B)." HBS Supplement 710-057.

Foley, C. Fritz, Michael Chen, Matthew Johnson, Linnea Meyer. "Noble Group." HBS Case 210-021.

Book Chapters

Alfaro, Laura and Matthew Johnson. 2012. "Foreign Direct Investment and Growth." Chap. 20 in *The Evidence and Impact of Financial Globalization*, edited by Gerard Caprio, 299–307. Elsevier.

CONFERENCES AND PRESENTATIONS

2016: Strategy and the Business Environment Annual Conference

2015: Southern Economic Association Annual Meeting

2014: Society of Labor Economists (SOLE) Annual Meeting; Alliance for Research in Corporate Sustainability (ARCS) Annual Meeting; Washington University Economics Graduate Student Conference; White House Office of Science and Technology Policy

2013: Harvard School of Public Health ERC Seminar

2012: Association for Public Policy and Management Fall Research Conference, Baltimore MD

COMPUTER SKILLS: STATA, LaTeX, R

OTHER EXPERIENCE

2014-2015: BU Labor Reading Group founder/organizer; 2013-2014: BU Graduate Economics Association Officer; 2012-2015: Volunteer Tutor with Tutoring Plus! (2012-2015)

Bettina B. Browne-Radburn

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Analysis of Economic Loss in the Matter of Estate of Bettina B. Browne-Radburn

September 2016

To Whom It May Concern,

I have been retained by Kreindler & Kreindler LLP to provide an estimate of the economic losses to the estate of Bettina Browne-Radburn following her death in the terrorist attacks of September II, 2001. The attached report provides the details of my analysis.

I have attached my Curriculum Vitae that describes my qualifications to undertake this report.

Matthew S. Johnson

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1. Introduction

Bettina Browne-Radburn was born on August 23, 1952, and she was 49 years old when she was killed in the terrorist attacks of September 11, 2001. She was survived by her husband, Ed Radburn.

This report provides the details behind an estimate of the economic loss to the estate of Ms. Radburn as a result of her death.

2. Retirement and Life Expectancy

I have assumed Ms. Browne-Radburn would work until age 70, which is the age it is estimated she would have retired based on the documents I have been given. I assume she would live until age 80, the average life expectancy of a white female aged 50 as of 2002.¹

3. Earnings Loss

Ms. Browne-Radburn was an accomplished businesswoman. At the time of her death, Bettina Browne-Radburn was an Executive Vice President for Mergers and Acquisitions with Aon, a position she had begun in May 2001. Based on her experience, Ms. Browne-Radburn was extremely qualified for this position, so I assume she would have continued with Aon into retirement. Her starting salary was \$175,000 with a guaranteed bonus of \$50,000. In addition, she had worked out an arrangement to provide consulting services to Omni, a company she had previously founded, for which she would be paid \$175,000 annually.

I assume Ms. Browne-Radburn's earnings would have grown at a rate equal to the compound annual growth rate (CAGR) of her earnings over the 4 years prior to 2001. Based on her tax returns, Ms. Browne-Radburn's salary earnings increased between 1997 and 2000 at a CAGR of 4 percent. Thus, I have assumed her total earnings (Aon salary and bonus, and Omni consulting services) would have grown at an annual rate of 4 percent.

4. Retirement Benefits

Aon provided a generous pension, which Ms. Browne-Radburn would have become eligible for after a few years of service. While I did not receive information about Aon's

¹ National Vital Statistics Reports. United States Life Tables, 2002. Volume 53, No. 6, November 10, 2004.